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Maximum Match 100%
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Maximum DB
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em gss rod: *
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gb gssl: *
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                  9 11 0
             AW888220
BC032745
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        AW888220 MXRA3 Hum
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                                                                                                                              Description
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AUTHORS
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                                                                                                                                                                                                                                                                                                                                         Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; C
Mammalia; Eutheria; P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AW888220
MXRA3 Human matrix tissue exp.
MXRA3 Human matrix tissue exp.
clone Incyte 1556751 similar
cane 3, mRNA sequence.
                                                                                                                        3160 Porter Drive, Palo Alto,
Tel: 650 845-5771
Pax: 650 621 8514
                                                                                                                                                                                                                                                                 1 (bases 1 to 1439)
Walker,M.G. and Volkmuth,W.
Watrix-remodeling associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AW888220.1 GI:8050231
                                                                                                                                                                                                   ncyte Genomics
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Location/Qualifiers
1. .1439
                                                                                                                                                                                                                         Michael Walker
/organism="Homo sapiens"
/mol_type="mRNA"
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BM671762
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                                                                                                                                                                                                                                                                    genes identified by co-expression
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                                                                                                                                                                        94304, USA
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W84522 zd90£10.81

AA87315 ch76h01.8

BM984490 U1-CF-DU1

AW069314 cr44b01.x

AI926527 wo46a11.x
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AI983849 wt51e05.x
BE966909 601660928
AW963887 EST375960
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Database

Result

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BASE COUNT
ORIGIN
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                                              Web site: http://www.nisc.nih.gov/
Contact: nisc_mgc@nhgri.nih.gov
Akhter, N. Ayēle, K., Beckstrom-Sternberg, S.M., Benjamin, B.,
Akeley, R.W., Bouffard, G.G., Breen, K., Brinkley, C., Brooke, S.,
Blakesley, R.W., Bouffard, G.G., Breen, K., Gupta, J., Haghighi, P.,
Hansen, N., Ho, S.-L., Karlins, E., Kwong, P., Laric, P., Legaspi, R.,
Maduro, Q. L., Masiello, C., Maskeri, B., Mastrian, S.D., McCloskey, J. C.,
McDowell, J., Pearson, R., Stantripop, S., Thomas, P. J., Touchman, J. M.,
Tsurgeon, C., Vogt, J.L., Malker, M.A., Metherby, K.D., Wiggins, L.,
Tsurgeon, C., Vogt, J.L., Malker, M.A., Metherby, K.D., Wiggins, L.,
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Direct Submission

Direct Submission

Submitted (06-JUN-2002) National Institutes of Health, Mammalian
Submitted (06-JUN-2002) Cancer Genomics Office, National Cancer

Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                              NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
Email: cgapbe-römail.nih:gov
Tissue Procurement: ATCC
CDNA Library Préparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: National Institutes of Health Intramural
Sequencing Center (NISC),
Gaithersburg, Maryland;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2310 bp | Homo sapiens, DKFZP434N161 protein, BC032745 BC032745.1 GI:22749754
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Mammalia; Eutheria;
1 (bases 1_to 2310)
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Primates;
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Catarrhini; Hominidae;
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clone
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linear HTC IMAGE:5574690,

04-MAR-2003 , mRNA.

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Clone distribution: MGC clone distribution information can be found

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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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10025.973 Million cell updates/sec
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Ş	8	Q	₽. •	Q	₽	Ą	Query Match Best Local Matches 143) OTHER INFOR	ORGANISM:	LENGT	; SEQ ID NO	, NUMBER	; CURRENT	, PILE RI	; TITLE OF I	APPLICANT	, APPLICANT:	GENERAL	; Sequence 6,	US-09-818-143-	PROIL'I
181 CAAATGTTAATTTTCCTAGAAAATCCTTCAGACCTGAAGACGCAGGAAAAGAATCTGGCT 240	121 AGAAGAAAAAAGAGACAAATTACCCAGAAAACCCCTTCCCTTCCCCCACATGGAGGCCTTGG 180	121 АGAAGAAAAAAAGAGACAAATTACCCAGAAACCCCTCCCTTCCCCACATGGAGGCCTTGG 180	61 TTCCTTGAAGAGTTTAGCCCTGGCTCACTTTTCACTCTATTTCTTCTTCTCCTGTCTCAAGAA 120	61 TICCTIGAAGAGTITTAGCCCTGGCTCACTITTCACTCTATTTCTTCTCCTGTCTCAAGAA 120	1 GAGTATCCCTTGTTTAATCACTTTTGTGGTTAAAAGAGACCTTTGGGTCAGTCTGCCTCA 60	1 GAGTATCCCTTGTTTAATCACTTTTGTGGTTTAAAAGAGACCTTTGGGTCAGTCTGCCTCA 60	. Match 100.0%; Score 1439; DB 9; Length 1439; Local Similarity 100.0%; Pred. No. 0; Les 1439; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	INFORMATION: 1556751CB1	EM: Homo sapiens		IO 6	SEQ ID NOS:	PILING DATE: 2001-03-26	FERENCE: PB-0004 CIP	OF INVENTION: POLYNUCLEOTIDES COEXPRESSED WITH MATRIX-REMODELING GENES	Volkmuth, Wayn	Ĭ.		ce 6, Application US/09818143	143-6	

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Patent No. US20020156263A1

GENERAL INFORMATION:

APPLICANT: Chen, Hue1-Me1

TITLE OF INVENTION: GENES EXPRESSED IN BREAST CANCER

FILE REFERENCE: PA-0037 P

CURRENT APPLICATION NUMBER: US/09/974,298

CURRENT FILING DATE: 2001-10-04

PRIOR APPLICATION NUMBER: 60/238,331

PRIOR FILING DATE: 2000-05-10

INMER: PERL PROGRAM

SEQ ID NO 148

LENGTH: 1439

TYPE: DNA

ORGANISM: Homo sapiens
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; OTHER INFORMATION: Incyte ID No. US20020156263A1 1556751CB1
US-09-974-298-148
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PEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID
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US-09-484-970B-133
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CURRENT FILING DATE: 2000-01-18
NUMBER OF SEQ ID NOS: 172
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APPLICANT: Volkmuth, Wayne
APPLICANT: Walker, Michael
TITLE OF INVENTION: BONE R.
FILE REFERENCE: PB-0014 US
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TELEX: 899149
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
**RNGTH: 7218 base pairs
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Best Local Similarity
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REFERENCE/DOCKET NUMBER: 304:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)836-000
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ZIP: 22313-0299
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: DC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Ve
CURRENT APPLICATION NUMBER: US/08/232,463
FILING DATE:
CLASSIFICATION: 435
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APPLICATION NUMBER: US/07/
FILING DATE:
APPLICATION NUMBER: EP 91
FILING DATE: 26-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
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APPLICANT: SCHEIFLINGER, P.
APPLICANT: FALKNER, F. G.
TITLE OF INVENTION: RECOMBINANT
NUMBER OF SEQUENCES: 52
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211; Mismatches 160;
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RESULT 2 US-08-232-463-14/c : Sequence 14, Application US/08232463 ; Patent No. 5670367

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Match
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10214.090 Million cell updates/sec
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Copyright (c) 1993 - 2003 Compugen Ltd.
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te cance	Breast cancer rela	Breast cancer rela	Human benign prost	Genomic DNA encodi	Human KCNB1 gene.	Human chemically m		MM211 microsatalli		PG-3			Nucleotide sequenc			Human lung antigen		Human secreted pro	Human neuregulin-1	•	neuregulin	Ħ		_	_	_	_		Human dithp cytosk			Lung cancer relate	Colon adenocarcino	EST clone AU118.	cDNA sequence #30	Human colon cancer

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	09-OCT-1998;		06-OCT-1999;		20-APR-2000.		WO200021986-A2.	٠		٠	CDS	Key		Homo sapiens.		antiulcer, ss.	cardioactive; a	diabetic necros	matrix-remodels	NSEQ gene; mati	,	NSEQ gene-6 ass		24-JUL-2000 (1		AAZ52354;	
	98US-0169289.		99WO-US23315					. :	/product= "PSEQ protein"	/*tag= a	168467	Location/Qualifiers					cardioactive; antiarthritic; angiogenic; antiarteriosclerotic;	diabetic necrosis; atherosclerosis; fibrosis; ulceration; cytostatic;	<pre>matrix-remodeling disease; cardiomyopathy; arthritis; angiogenesis;</pre>	NSEQ gene; matrix-remodeling gene; Incyte clone 1556751; cancer;		NSEQ gene-6 associated with matrix remodelling.		(first entry)			

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Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 1439; Conservative 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protein co-expressed with matrix-remodeling proteins, useful in diagnosis and treatment of cancer, cardiomyopathy, arthritis, angiogenesis, diabetic necrosis, atherosclerosis, fibrosis, and ulceration
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   GAATCTCCACATCATTGTCTTT
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Matches 1439
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated polynucleotide coexpressed with matrix-remodeling genes, useful in diagnosis, prognosis, prevention and treatment of diseases associated with matrix-remodeling such as angiogenesis, arthritis and
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Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly sendata userts office at
                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 1439; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1439 BP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID NO 148; 30pp; English.
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.
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Perfect score:
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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

TITLE	AUTHORS	REFERENCE			ORGANISM	SOURCE	KEYWORDS	VERSION	ACCESSION		DEFINITION	Locus	BC030030	RESULT 1
Direct Submission	S Strausberg, R.		Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		Homo sapiens (human)	MGC.	BC030030.1 GI:20987193	N BC030030	mRNA, complete cds.	Homo sapiens, DKFZP434N1	BC030030 1557 bp mRNA linear PRI 20-MAY-2002		

0y 4 0y 5 0y 4	Оу 3 Db 4	Ο _γ 2	Qу 2 Db 3	. Qу 1 Db 2	٥٧ ع	Query Match Best Local Matches 132	BASE COUNT ORIGIN		CDS		Bource	HEATIIRES					REMARK	JOURNAL
408 TTAAAAGTTGGCCGTCCCCAGGCCTCCCAGCGCAAACTTAAAGAGACAGGGCTTTGCTGA 467	348 AGGGCATGCGCTTGTTGGCAAAACGCAGGGCCGGCTCCCAAAAACCCCATGTGTGTG	288 ACAGGGCCGTCCTGTTCCTCCCCGGGACTCCAGAATTTCTCTCCTCAAAGGAAAGAAA	228 AAAGAATCTGGCTCTCAGGGTGGCTTCTGCGTCCCGCCGCCAGGCCCAGACTATGGTC 287	168 ATGAAGGCCTTGGCAAATGTTAATTTTCCTAGAAAATCCTTCAGACCTGAAGACGCAGGA 227 	rccccac 16	Query Match 91.4%; Score 1314.8; DB 9; Length 1557; Best Local Similarity 99.7%; Pred. NO. 0; Matches 1328; Conservative 0; Mismatches 2; Indels 2; Gaps 1;	/translation="MEALANVNPPRKSFRPEDAGKESGSQGGFCVPAARPQTMVTGPS CSSPGLQNFSPQRKENRACACWQNAGPAPKNPWCVRLKVGRPQASQRKLKETGLC" 441 a 367 c 381 g 368 t	/codon_statt=1 /product="DXFZF434N161 protein" /protein_id="AAH30030.1" /db_xref="GI:20987194"		<pre>/db_xref="LocusID:25559" /db_xref="taxon:9666" /clone="MGC:3507 IMAGE:3605290" /clssde_type="Uterus, endometrium adenocarcinoma"</pre>		This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 7661583.	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov	Anup Madan, Jessica Pahey, Erin Helton, Mark Ketteman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting	CUNA LIDEARY ARRAYED by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Institute for Systems Biology http://www.systemsbiology.org CONTACT: amadan@aystemsbiology.oxg	Email: cgapbs r@mail.nih.gov Tissue Procurement: ATCC cDNA Library Preparation: Rubin Laboratory	USA NIH-MGC Project URL: http://mgc.nci.nih.gov	Submitted (06-MAY-2002) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590
RESULT 2 BC049201 LOCUS DEFINITION ACCESSION VERSION KEYWORDS	B &	₽ <i>&</i>	dg Qq	\$ Q	B 64	B Q	B &	g Qy	dg Vo	d Qy	dg dg	Db	& B	Q	g &	g Q	ДĎ	Q
BC049201 ON Homo Bapiens, clone IMAGB:3923697, mRNA. N BC049201 BC049201.1 GI:29165708	1428 AAAAAAAAAAAA 1439 1533 AAAAAAAAAAA 1544	1368 TGTAATCGTTTTTTTTAGAAGGTAAACAAATTTAATAAAGCTACCAATAATGAGAAAAAA 1427 	1308 ACTTTCTGATCACGGTACGTCCATAAAGCCAGTATTACACTTAAATGAAGTATTCTTTTT 1367	1248 TACTGGACTCGTGCCTCTGCGCCCATTCTCTCACGCATATCCATGAGCTTTAATTTC 1307	1188 GAATGCGTGACCCCTGAGATGGGTCCACGCATCTCTTACACTTCCTTTCTCTCCGTGGGA 1247	1128 CAGCCCTGGAGCCAGTCCAGTGCATTTATTTTAAGCTCTTAGAAGCAACTCCTTGGCCCAG 1187	1068 GGAAGGTCGCAGCTTTGGGCAGCTTTGAGAAGCGGTACAAGAGTTCTGTGCCTGTGTGTC 1127	1008 AATTGCAGAGAAAAACAAAACCAAAGCTGATTGGAAACAATTAATT	948 ATGGATGGATGGATGGATGGATGTATGGATGAATAGATAGATGGTGTTTGCATGTA 1007 	888 TAGTGAAGGGAATGTACATAAACAAAATAGGGCTTOGCTCGATCAAAGGAGACAAGCAAG 947	828 GITTCTCCTTAGAAAAGTAGGTTTCTTGGCTTGATGTAGACTGGCTTGCTT	₽	813 ACCANARACGCGCGCGCGCTTTCCGAGGCCAGTGAGCTCAGGCTCCAGGGCTTTAAAGGC 872		648 CAGAAAGGGAAGGGTTCCAAGCCTCTAAAAATGTGCTTTGTGATCAGGAGTGCGCTCCAA 707	588 TTTGGTCCCCTAAGAATCTCCACATCATTGTCTTTCTTGTGCCTTTTCCTTGGTGAGCAA 647	635 AACAGAGCCTGCGGGAAACGGGGCTTGCCAGAGACACTCAGTTTCCTTCATGGCCTGT 692	528 AACAGAGCCTGCGGGAAACGGGGCTTGCCAGAGACACTCACAGTTTCCTTCATGGCCTGT 587